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(71) Applicant (for all designated States except US): PURE TECHNOLOGIES LTD. [CA/CA]; 3rd Floor, 705 - 11th Avenue S.w., Calgary, Alberta T2R 0E3 (CA).

(72) Inventor; and

(75) Inventor/Applicant (for US only): PAULSON, Peter, O. [CA/CA]; 320 Pumphill Gardens S.w., Calgary, Alberta T2V 4M7 (CA).

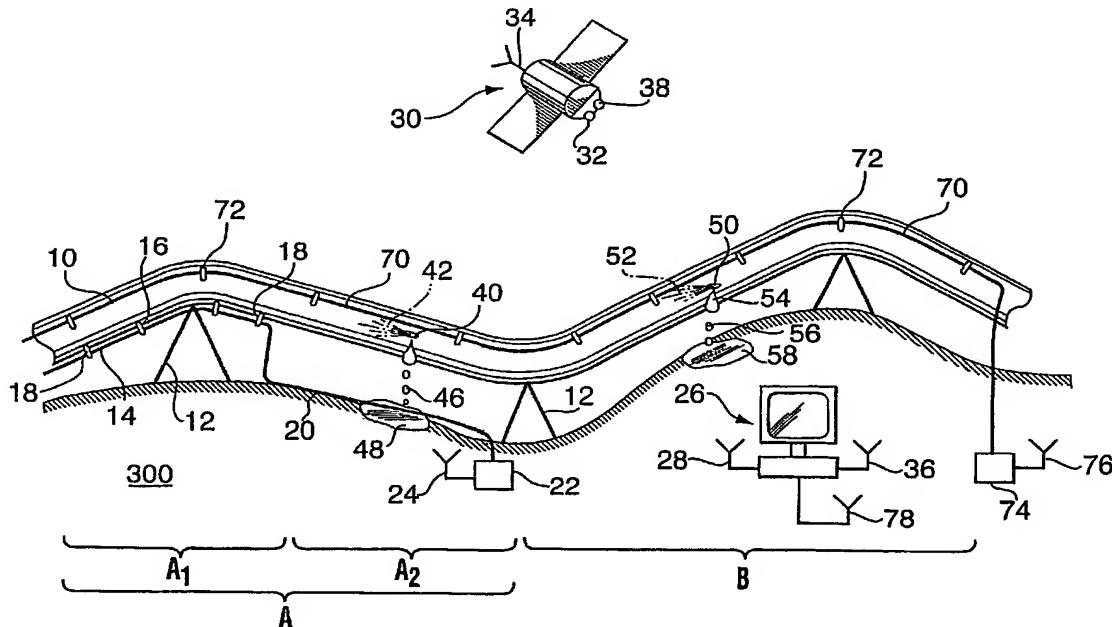
(74) Agent: BLAKE, CASSELS & GRAYDON LLP; World Exchange Plaza, 20th Floor, 45 O'Connor Street, Ottawa, Ontario K1P 1A4 (CA).

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[Continued on next page]

(54) Title: PIPELINE MONITORING SYSTEM



(57) Abstract: Process and apparatus for sensing possible leaks in a pipeline. The pipeline is monitored continuously by acoustic monitoring means, and acoustic events indicating a possible leak are noted. The pipeline is also equipped with temperature monitoring means, and is monitored for temperature either continuously, periodically or on demand. A leak is deemed probable at any location where there is an acoustic event indicating a possible leak, and at approximately the same time, a temperature difference greater than a pre-chosen amount between that location and adjacent locations



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